Reg. No.:						

Question Paper Code: UC309

B.E./B.Tech. DEGREE EXAMINATION, APRIL / MAY 2025

Professional Elective

Biotechnology

21BTV309 - CLINICAL TRIALS

(Regulations 2021)

Duration: Three hours

Answer ALL Questions

Maximum: 100 Marks

PART A - $(10 \times 2 = 20 \text{ Marks})$

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1.	Define sampling.							
2.	Predict the importance of preclinical trial.							
3.	Highlight the significance of zebra fish in clinical research.							
4.	4. Expand INSA & ICMR.							
5.	5. Differentiate the role of sponsors and investigators.							
6.	. State the principle of good clinical practice.							
7.	Categorize 2 essential documents that are to be prepared before the start of a clinical trial.							
8.	Mention the components of a Master file.							
9.	9. State the principle of risk management.							
10.	D. Emphasize the opportunities for pharmacovigilance.							
	PART – B (5 x 16= 80 Marks)							
11.	(a) With a neat flow sheet, comprehend the stages in drug discovery CO1-and development process. Comment on the timelines and regulatory bodies involved in the process in India.	U (16)						

Or

(b) Explain the importance of clinical trial and summarize the reasons CO1- U and procedures for premature termination of trials.

12. (a) Paraphrase the principles of ethics to be followed in experiments CO2-U (16)involving human subjects in India. Or (b) Comment on methods to reduce the use of animals in research and CO2- U (16)address the role of animals in research using relevant examples. 13. (a) Comprehend the need for harmonized guidelines for registration of CO1- U (16)pharmaceuticals for human use. Add notes on the organizational of International Conference functions structure and Harmonization.

Or

(b) Discuss about clinical trials and clinical trial investigator. CO1-U (16)

14. (a) Prepare an informed consent form for a clinical trial planned for CO4- App (16)disease X in Hospital Y. Describe the essential components of the informed consent form with relevant examples.

- (b) Dr.Roy has discovered a new drug to cure Type II diabetes. He is CO4- App (16)now in need to start a clinical trial to validate invention. Help him out in preparing the essential documents before he starts a trial.
- 15. (a) Elucidate the principles of clinical trial project management and CO2 - U (16)risk management strategies in clinical trial.

Or

(b) Paraphrase on the organizational structure and responsibilities of CO1- U (16)Pharmacovigilance Program in India (PvPI).